

Mountain Valley Pipeline, LLC

v.

Easements to Construct, etc., et al.

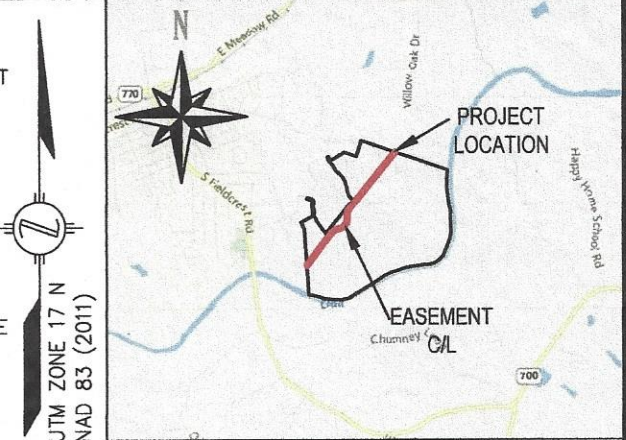
Exhibit 46 to Complaint

Map of MVP Parcel No. NC-RO-007.000

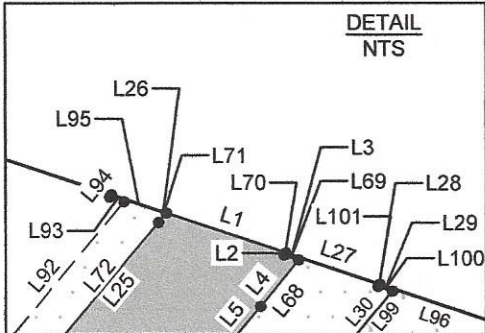
NOTES

1. ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GRID DISTANCES, A PROJECT SCALE FACTOR (PSF) OF 0.99979557 WAS ESTABLISHED FOR THIS PROJECT. TO OBTAIN GROUND DISTANCE, DIVIDE THE DISTANCE SHOWN BY THE PSF.
2. AREAS DETERMINED BY COORDINATE METHOD.
3. AREAS SHOWN ARE SUBJECT TO EASEMENT OF RECORD.
4. RECORD REFERENCES: DEED BOOK 1484, PAGE 35
5. PARCEL ID: 146793
6. PROPERTY LINES SHOWN ARE BASED ON EXISTING DEEDS, PLATS AND VISIBLE MONUMENTATION DISCOVERED ALONG PROJECT AREA.
7. THIS SURVEY IS REFERENCED TO THE UTM ZONE 17 N NAD 83.
8. ALL CORNERS ARE AS NOTED.
9. THIS PLAT IS FOR EASEMENT ACQUISITION PURPOSES ONLY AND IS NOT TO BE CONSIDERED A BOUNDARY SURVEY OF THE PARENT TRACT.
10. TEMPORARY EASEMENT TO BE ACQUIRED.

EXHIBIT A



VICINITY MAP (NTS)



DETAIL NTS

NC-RO-007.000
BARRY S. FRANK
DEED BOOK 1484, PAGE 35
PARCEL ID. NO. 146793

TEMPORARY WORKSPACE
2.15± ACRES
93,566± SQ. FEET

TEMPORARY WORKSPACE
4.23± ACRES
184,331± SQ. FEET

POSSIBLE TEMPORARY WORKSPACE
0.09± ACRES
3,724± SQ. FEET

PERMANENT EASEMENT
7.22± ACRES
314,306± SQ. FEET

ADDITIONAL TEMPORARY WORKSPACE
0.46± ACRES
19,999± SQ. FEET

NC-RO-006.000
N/F
WILLOW OAKS PLANTATION, LLC
DEED BOOK 1077, PAGE 1830

POINT OF BEGINNING
N: 13,260,066.53
E: 2,033,950.92

SEE DETAIL "A" THIS SHEET

ADDITIONAL TEMPORARY WORKSPACE
0.34± ACRES
14,784± SQ. FEET

NGS MONUMENT SHILOH
N: 13,217,602.44
E: 2,042,805.03
CSF = 0.99975126

N62°37'14"E
2,755.53' GRID

NGS MONUMENT BARNES
N: 13,216,335.22
E: 2,040,358.17
CSF = 0.99974929

ADDITIONAL TEMPORARY WORKSPACE
0.46± ACRES
20,045± SQ. FEET

BARRY S. FRANK

- LEGEND
- NGS MONUMENT
 - EIP EXISTING IRON PIPE OR PIN
 - CP COMPUTED POINT
 - LINE NOT TO SCALE

- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE



MATCHLINE
SEE SHEET 2 OF 8

sq. ft. acres
AREA OF PERMANENT EASEMENT: 314,306± 7.22 ACRES
AREA OF TEMPORARY WORKSPACE: 277,897± 6.38 ACRES
AREA OF ADDITIONAL TEMPORARY WORKSPACE: 298,812± 6.86 ACRES
AREA OF ACCESS ROAD: 104,425± 2.41 ACRES
AREA OF POSSIBLE TEMPORARY WORKSPACE: 12,971± 0.30 ACRES

SEE SHEETS 7 AND 8 OF 8 FOR LINE TABLES

I, Thomas Warner Kimmel, certify that this plat is of a PERMANENT EASEMENT for a public utility as defined in GS 62-3; that this plat was drawn under my supervision from an actual survey performed under my supervision (deed description recorded in deed book 1484, page 35); that the ratio of precision as calculated is 1:10,000±; that the Global Positioning System (GPS) observations were performed to the Geospatial Positioning Accuracy Standards, Part 2: Standards for Geodetic Networks at the Class "A" accuracy classification (95% confidence) using RTK/VRS networks and traditional traverses.

That this plat meets the requirements of G.S. 47-30 section (f)(11)(c).

This 15th day of October, 2020.

Thomas Warner Kimmel
THOMAS WARNER KIMMEL, PLS L-3674

LAND OWNER INITIALS: _____

DATE: _____

TRC ENGINEERS, INC
21 GRIFFIN ROAD NORTH
WINDSOR, CT 06095
PH: (724) 749-8572 tkimmel@trcsolutions.com
NC CORPORATE LICENSE No. F-0591

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA



PIPELINE EASEMENT IN PROPERTY OF
BARRY S. FRANK

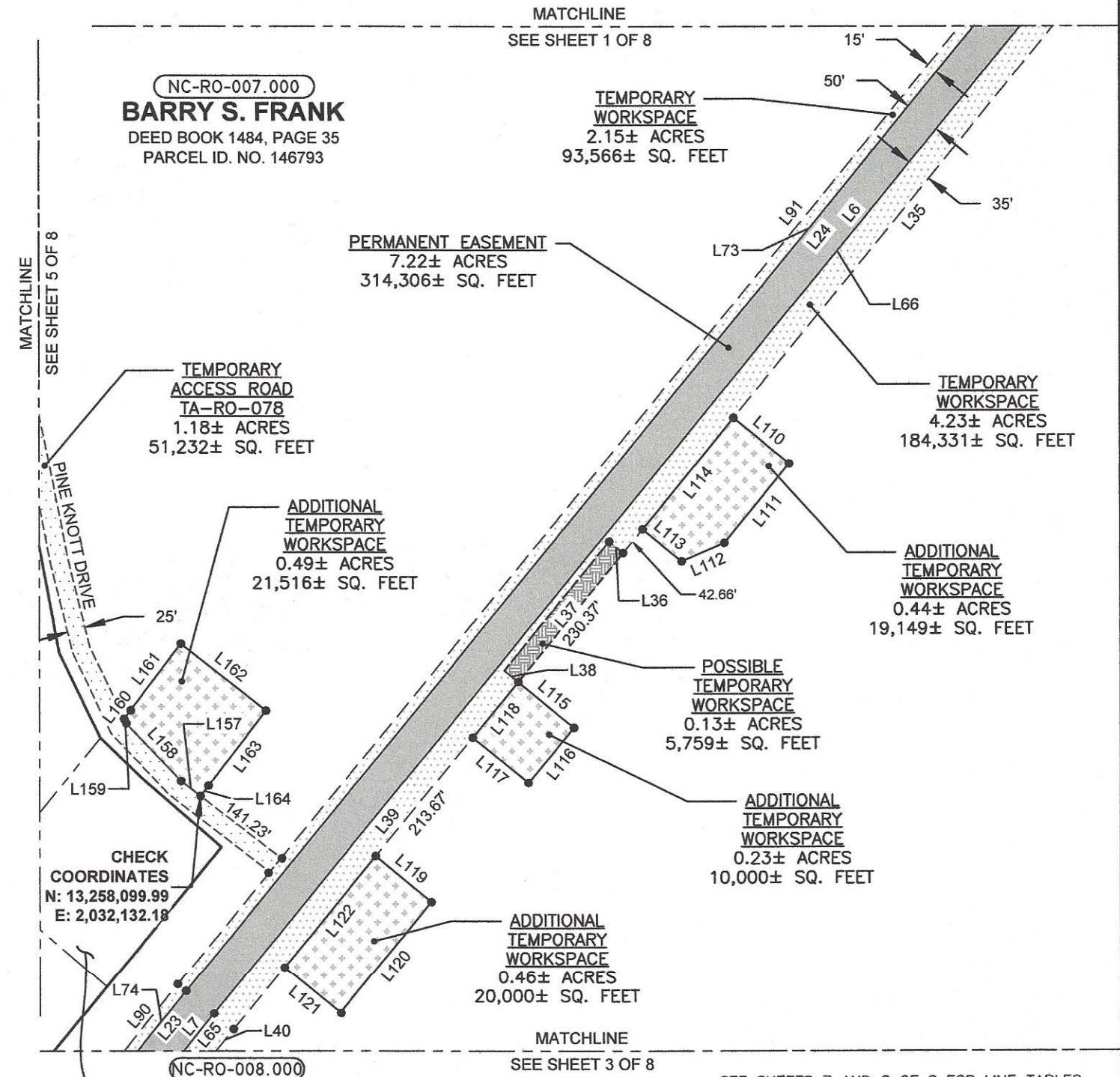
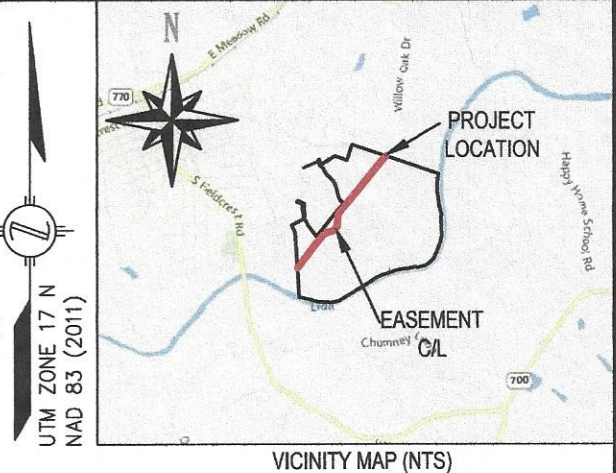
NC-RO-007.000
DEED BOOK 1484, PAGE 35

NC-RO-007.000				
Drawn By: JCL	Chk'd By:	App'd By:	TRC Proj. No. 300423	Scale: 1"=200'
Draw Date: 10/29/18	DD	TWK	Sheet: 1 OF 8	MVP Proj. No.
200 100 0 200				
GRAPHIC SCALE IN FEET				
REVISIONS				
C	2/1/19	DJB	REVISED ACCESS ROADS	DD
B	6/26/19	TCM	RE- ROUTE	DD
1	8/21/20	TEW	RE-ROUTE	DD
No.	Date	Rev By	Description	Checked

NOTES

1. ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GRID DISTANCES, A PROJECT SCALE FACTOR (PSF) OF 0.99979557 WAS ESTABLISHED FOR THIS PROJECT. TO OBTAIN GROUND DISTANCE, DIVIDE THE DISTANCE SHOWN BY THE PSF.
2. AREAS DETERMINED BY COORDINATE METHOD.
3. AREAS SHOWN ARE SUBJECT TO EASEMENT OF RECORD.
4. RECORD REFERENCES: DEED BOOK 1484, PAGE 35
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7. THIS SURVEY IS REFERENCED TO THE UTM ZONE 17 N NAD 83.
8. ALL CORNERS ARE AS NOTED.
9. THIS PLAT IS FOR EASEMENT ACQUISITION PURPOSES ONLY AND IS NOT TO BE CONSIDERED A BOUNDARY SURVEY OF THE PARENT TRACT.
10. TEMPORARY EASEMENT TO BE ACQUIRED.

EXHIBIT A



LEGEND

- NGS MONUMENT
- EXISTING IRON PIPE OR PIN
- COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE

SEE SHEET 1 FOR THE LAND SURVEYOR'S CERTIFICATION.

THOMAS MICHAEL HAND & BARRY SPENSER FRANK
DEED BOOK 1505, PAGE 1039

LAND OWNER INITIALS: _____
DATE: _____

Professional Seal: NORTH CAROLINA PROFESSIONAL SURVEYOR, L-3674, THOMAS WARNER KIMMEL

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA

Mountain Valley PIPELINE LLC

PIPELINE EASEMENT IN PROPERTY OF
BARRY S. FRANK
NC-RO-007.000
DEED BOOK 1484, PAGE 35

NC-RO-007.000

Drawn By: JCL	Chk'd By: DD	App'd By: TWK	Scale: 1"=200'
Drawn Date: 10/29/18			MVP Proj. No.

200 100 0 200

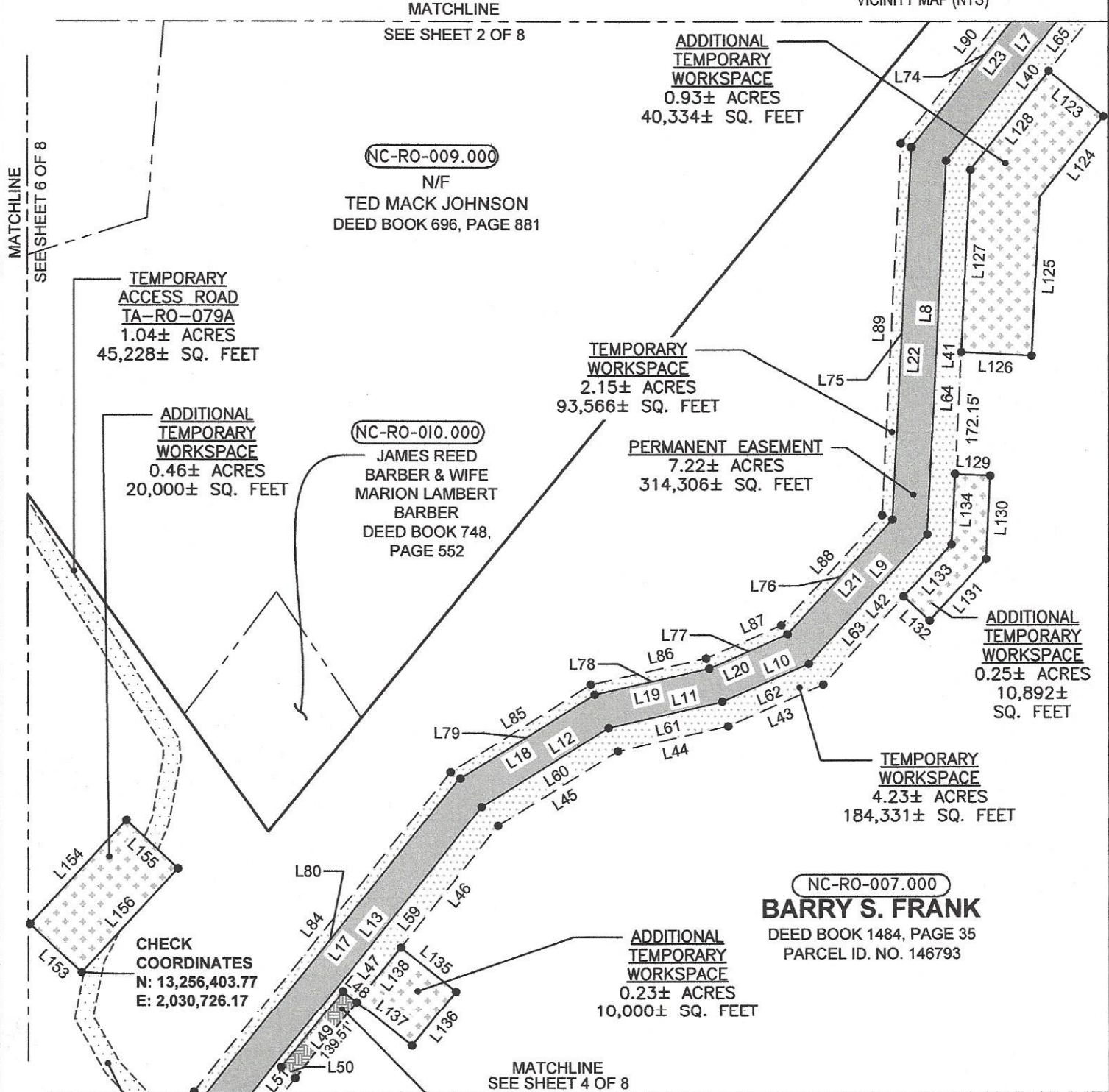
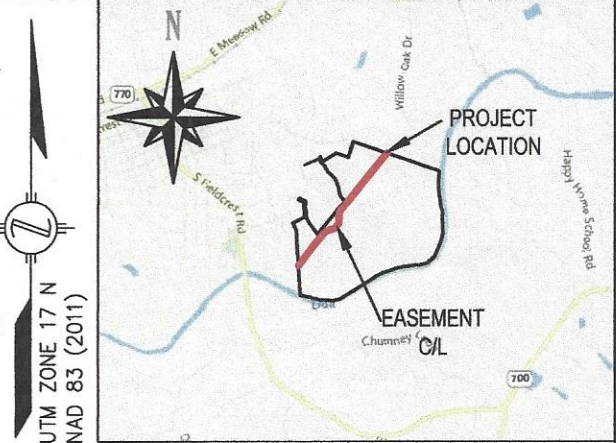
GRAPHIC SCALE IN FEET

REVISIONS			
B	2/1/19	DJB	REVISED ACCESS ROADS
C	6/26/19	TCM	RE-ROUTE
1	8/21/20	TEW	UPDATED ROUTE & NOTES
No.	Date	Rev By	Description

NOTES

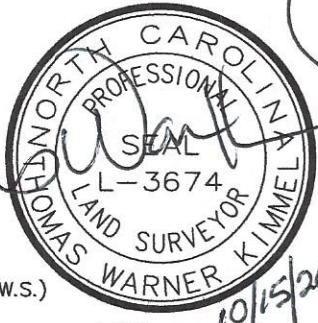
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10. TEMPORARY EASEMENT TO BE ACQUIRED.

EXHIBIT A



- LEGEND
- NGS MONUMENT
 - EIP EXISTING IRON PIPE OR PIN
 - CP COMPUTED POINT
 - LINE NOT TO SCALE

- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE



SEE SHEET 1 FOR THE LAND SURVEYOR'S CERTIFICATION.

LAND OWNER INITIALS: _____
DATE: _____

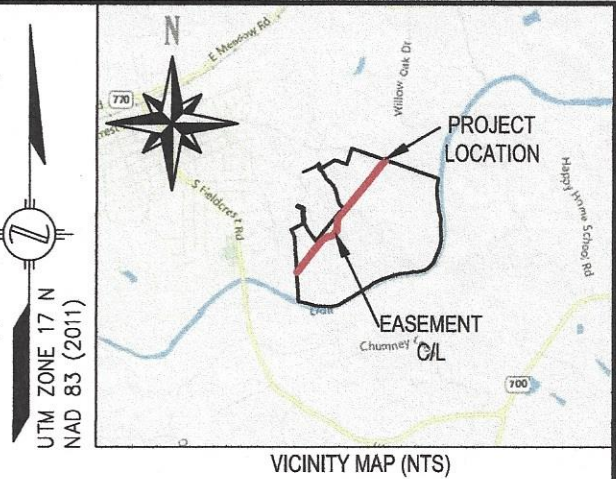
SEE SHEETS 7 AND 8 OF 8 FOR LINE TABLES

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA				
PIPELINE EASEMENT IN PROPERTY OF BARRY S. FRANK NC-RO-007.000 DEED BOOK 1484, PAGE 35				
Drawn By: JCL	Chk'd By: DD	App'd By: TWK	TRC Proj. No. 300423 Scale: 1"=200' MVP Proj. No. 3 OF 8	
Drawn Date: 10/29/18				
GRAPHIC SCALE IN FEET 200 100 0 200				
REVISIONS				
B	2/1/19	AHP	REVISED ACCESS ROADS	DD
C	6/26/19	DJB	RE ROUTE	DD
1	8/21/20	TEW	UPDATED ROUTE & NOTES	DD
No.	Date	Rev By	Description	Checked

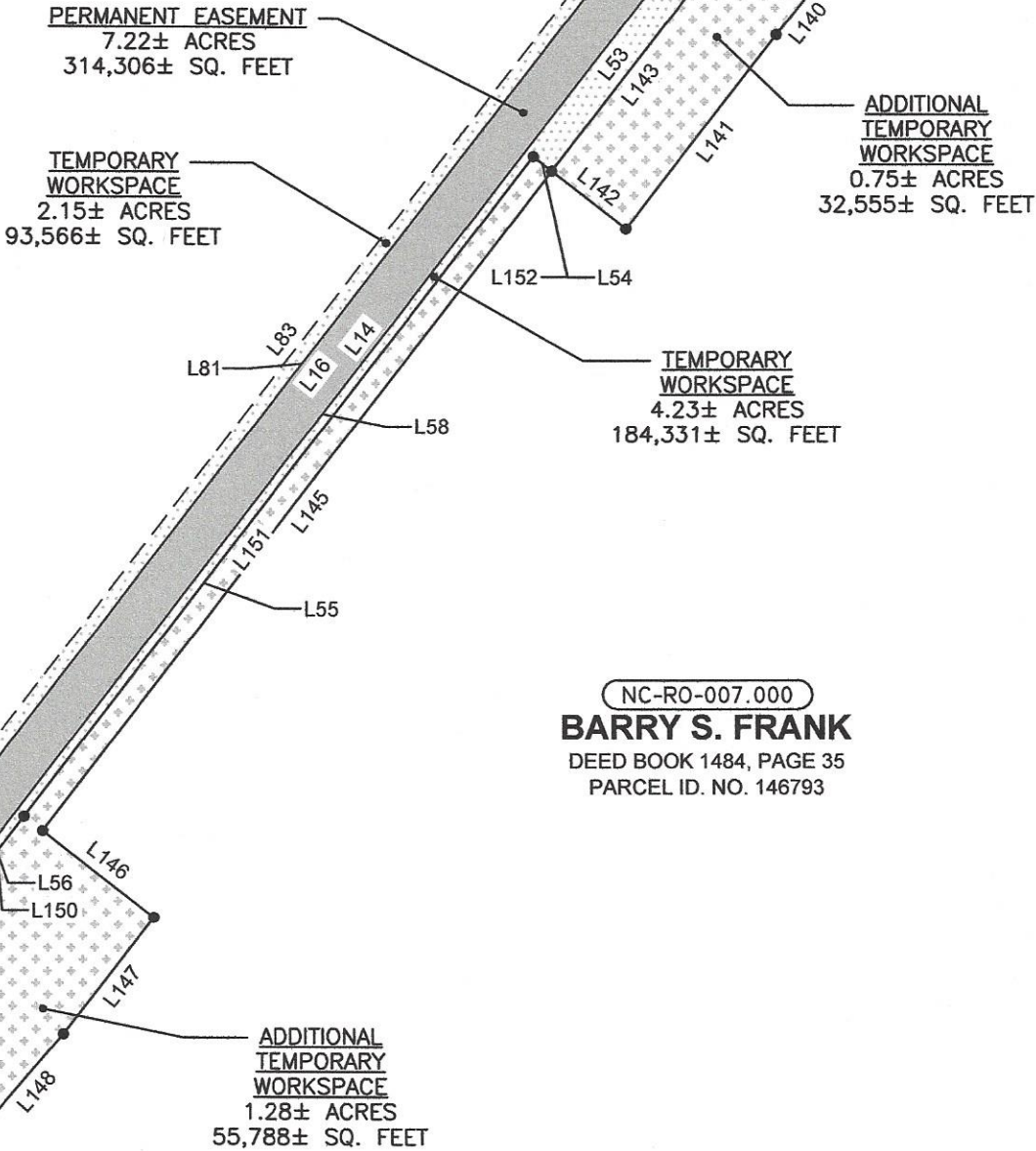
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EXHIBIT A



MATCHLINE
SEE SHEET 3 OF 8



BEATRICE E. COCHRAN, LIFE ESTATE; BARRY COCHRAN AND WIFE, DEBORAH V. COCHRAN, REMAINDERMAN
DEED BOOK 1540, PAGE 1361

NC-RO-011.000
N/F

NC-RO-007.000
BARRY S. FRANK
DEED BOOK 1484, PAGE 35
PARCEL ID. NO. 146793

MATCHLINE
SEE SHEET 5 OF 8

SEE SHEETS 7 AND 8 OF 8 FOR LINE TABLES

LEGEND

- NGS MONUMENT
- EXISTING IRON PIPE OR PIN
- COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
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LAND OWNER INITIALS: _____
DATE: _____

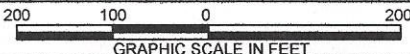
SEE SHEET 1 FOR THE LAND SURVEYOR'S CERTIFICATION.

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA



PIPELINE EASEMENT IN PROPERTY OF
BARRY S. FRANK
NC-RO-007.000
DEED BOOK 1484, PAGE 35

NC-RO-007.000
Drawn By: JCL Chk'd By: DD App'd By: TWK ITRC Proj. No. 300423 Scale: 1"=200'
Drawn Date: 10/29/18 DD TWK Sheet: 4 OF 8 MVP Proj. No.

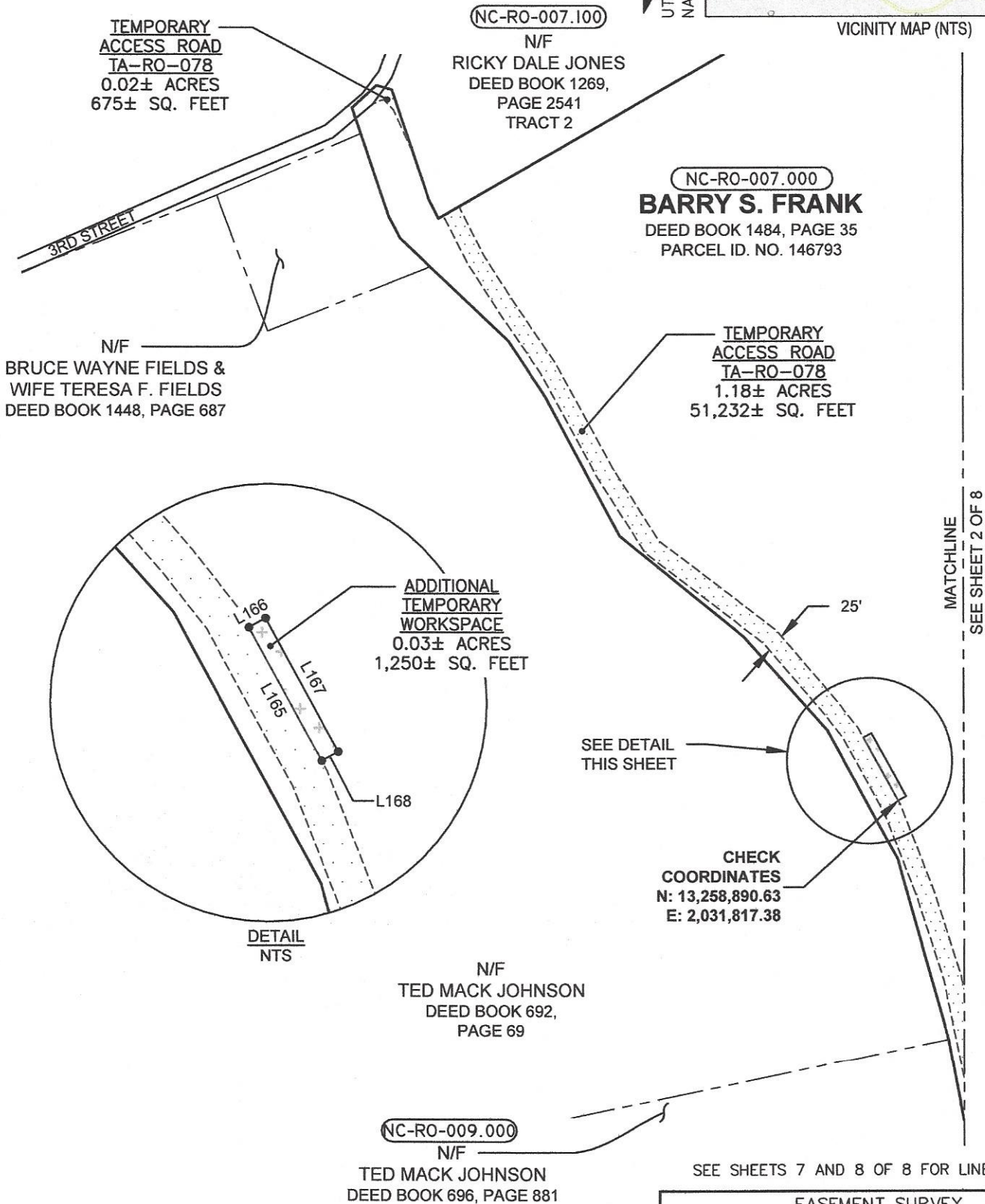
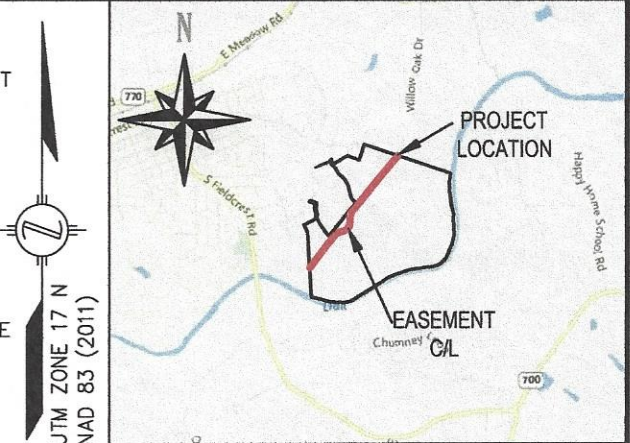


REVISIONS				
B	2/1/19	DJB	REVISED ACCESS ROADS	DD
C	6/26/19	TCM	RE-ROUTE	DD
1	8/21/20	TEW	UPDATED ROUTE & NOTES	DD
No.	Date	Rev By	Description	Checked

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EXHIBIT A



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LAND OWNER INITIALS: _____

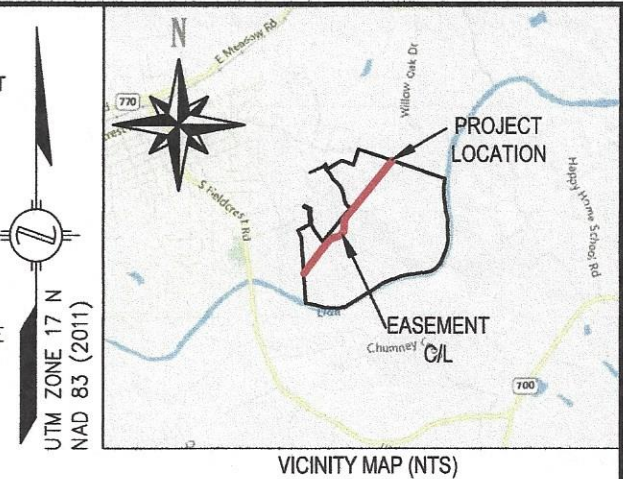
SEE SHEET 1 FOR THE LAND SURVEYOR'S CERTIFICATION. DATE: _____

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA				
PIPELINE EASEMENT IN PROPERTY OF BARRY S. FRANK NC-RO-007.000 DEED BOOK 1484, PAGE 35				
Drawn By: JCL	Chk'd By: DD	App'd By: TWK	TRC Proj. No. 300423	Scale: 1"=200'
Drawn Date: 10/29/18			Sheet: 5 OF 8	MVP Proj. No.
200 100 0 200 GRAPHIC SCALE IN FEET				
REVISIONS				
B	2/1/19	DJB	REVISED ACCESS ROADS	DD
C	6/26/19	TCM	RE-ROUTE	DD
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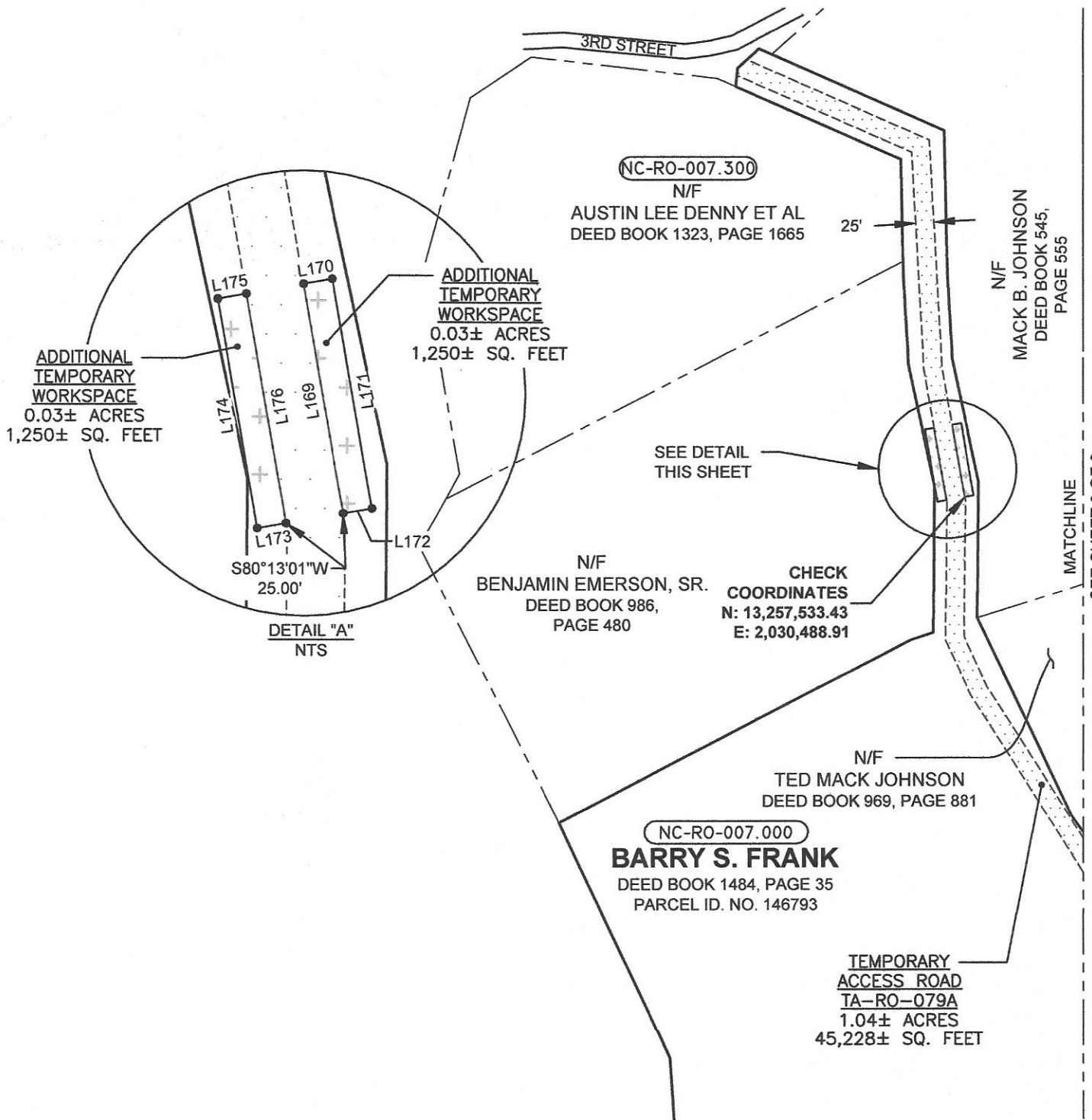
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EXHIBIT A



VICINITY MAP (NTS)



LEGEND

- NGS MONUMENT
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- CP COMPUTED POINT
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LAND OWNER INITIALS: _____
DATE: _____

SEE SHEET 1 FOR THE LAND SURVEYOR'S CERTIFICATION.



SEE SHEETS 7 AND 8 OF 8 FOR LINE TABLES

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA				
PIPELINE EASEMENT IN PROPERTY OF BARRY S. FRANK NC-RO-007.000 DEED BOOK 1484, PAGE 35				
NC-RO-007.000				
Drawn By: JCL	Chk'd By: DD	App'd By: TWK	IRC Proj. No. 300423 Sheet: 6 OF 8 Scale: 1"=200' MVP Proj. No.	
200 100 0 200 GRAPHIC SCALE IN FEET				
REVISIONS				
A	2/1/19	DJB	REVISED ACCESS ROADS	DD
B	6/26/19	TCM	RE-ROUTE	DD
1	8/21/20	TEW	UPDATED ROUTE & NOTES	DD
No.	Date	Rev By	Description	Checked

EXHIBIT A

PERMANENT EASEMENT		
LINE TABLE		
LINE	BEARING	DISTANCE
L1	S71°32'38"E	47.73'
L2	S39°18'37"W	1.07'
L3	S71°32'38"E	5.73'
L4	S39°10'03"W	22.76'
L5	S39°55'18"W	152.10'
L6	S39°23'31"W	2,739.98'
L7	S38°41'57"W	317.65'
L8	S02°57'37"W	528.82'
L9	S42°42'34"W	248.21'
L10	S66°36'50"W	136.15'
L11	S77°20'50"W	162.32'
L12	S58°00'53"W	212.09'
L13	S38°47'20"W	569.37'
L14	S37°43'17"W	1,233.31'
L15	N03°29'06"W	75.90'
L16	N37°43'17"E	1,176.67'
L17	N38°47'20"E	578.30'
L18	N58°00'53"E	229.07'
L19	N77°20'50"E	166.14'
L20	N66°36'50"E	120.87'
L21	N42°42'34"E	219.55'
L22	N02°57'37"E	526.87'
L23	N38°41'57"E	334.07'
L24	N39°23'31"E	2,740.52'
L25	N39°55'18"E	152.00'
L26	N39°10'03"E	4.59'

TEMPORARY WORKSPACE		
LINE TABLE		
LINE	BEARING	DISTANCE
L27	S71°32'38"E	37.45'
L28	S39°18'37"W	1.07'
L29	S71°32'38"E	5.69'
L30	S39°46'36"W	188.38'
L31	S39°23'31"W	499.18'
L32	N50°36'29"W	25.00'
L33	S39°23'48"W	148.97'
L34	S50°40'34"E	25.00'
L35	S39°23'29"W	1,234.98'
L36	N50°36'29"W	25.00'
L37	S39°23'31"W	230.36'
L38	S50°35'27"E	25.00'
L39	S39°23'31"W	626.15'
L40	S38°41'57"W	306.15'
L41	S02°57'37"W	530.19'
L42	S42°42'34"W	268.27'
L43	S66°36'50"W	146.84'
L44	S77°20'50"W	159.65'
L45	S58°00'53"W	200.20'
L46	S38°47'19"W	220.46'
L47	S38°47'20"W	100.00'
L48	N51°12'40"W	25.00'
L49	S38°47'20"W	139.51'
L50	S51°12'41"E	25.00'
L51	S38°47'21"W	37.74'
L52	S38°47'20"W	65.41'
L53	S37°43'17"W	262.36'
L54	N52°16'43"W	25.00'
L55	S37°43'17"W	887.24'
L56	S37°43'18"W	94.80'
L57	N03°29'06"W	15.18'
L58	N37°43'17"E	1,233.31'
L59	N38°47'20"E	569.37'
L60	N58°00'53"E	212.09'
L61	N77°20'50"E	162.32'
L62	N66°36'50"E	136.15'

TEMPORARY WORKSPACE		
L63	N42°42'34"E	248.21'
L64	N02°57'37"E	528.82'
L65	N38°41'57"E	317.65'
L66	N39°23'31"E	2,739.98'
L67	N39°55'18"E	152.10'
L68	N39°10'03"E	22.76'
L69	N71°32'38"W	5.73'
L70	N39°18'37"E	1.07'
L71	S39°10'03"W	4.59'
L72	S39°55'18"W	152.00'
L73	S39°23'31"W	2,740.52'
L74	S38°41'57"W	334.07'
L75	S02°57'37"W	526.87'
L76	S42°42'34"W	219.55'
L77	S66°36'50"W	120.87'
L78	S77°20'50"W	166.14'
L79	S58°00'53"W	229.07'
L80	S38°47'20"W	578.30'
L81	S37°43'17"W	1,176.67'
L82	N03°29'06"W	22.77'
L83	N37°43'17"E	1,159.68'
L84	N38°47'20"E	580.98'
L85	N58°00'53"E	234.17'
L86	N77°20'50"E	167.29'
L87	N66°36'50"E	116.28'
L88	N42°42'34"E	210.96'
L89	N02°57'37"E	526.28'
L90	N38°41'57"E	339.00'
L91	N39°23'31"E	2,740.68'
L92	N39°55'18"E	149.71'
L93	N71°32'38"W	5.76'
L94	N39°18'37"E	1.07'
L95	S71°32'38"E	21.83'



LAND
OWNER
INITIALS: _____

DATE: _____

SEE SHEET 1 FOR THE LAND SURVEYOR'S CERTIFICATION.

SEE SHEET 1-6 OF 8 FOR GRAPHICS AND LABELS


EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA				
				
PIPELINE EASEMENT IN PROPERTY OF BARRY S. FRANK NC-RO-007.000 DEED BOOK 1484, PAGE 35				
NC-RO-007.000				
Drawn By: JCL	Chk'd By: DD	App'd By: TWK	IRC Proj. No. 300423	Scale: NTS
Drawn Date: 10/29/18			Sheet: 7 OF 8	MVP Proj. No.
REVISIONS				
B	2/1/19	DJB	REVISED ACCESS ROADS	DD
C	6/26/19	TCM	RE-ROUTE	DD
1	8/21/20	TEW	UPDATED ROUTE & NOTES	DD
No.	Date	Rev By	Description	Checked

EXHIBIT A

ADDITIONAL TEMPORARY WORKSPACE		
LINE TABLE		
LINE	BEARING	DISTANCE
L96	S71°32'38"E	107.01'
L97	S39°18'37"W	173.33'
L98	N50°40'35"W	95.79'
L99	N39°46'36"E	136.17'
L100	N71°32'38"W	5.69'
L101	N39°18'37"E	1.07'
L102	S50°36'29"E	100.00'
L103	S39°23'49"W	200.93'
L104	N50°04'37"W	99.99'
L105	N39°23'31"E	200.00'
L106	S50°36'32"E	100.00'
L107	S39°23'29"W	199.99'
L108	N50°36'31"W	100.00'
L109	N39°23'29"E	199.99'
L110	S50°36'30"E	100.00'
L111	S39°23'30"W	142.39'
L112	S66°32'01"W	64.74'
L113	N50°36'31"W	70.47'
L114	N39°23'29"E	200.00'
L115	S50°36'29"E	100.00'
L116	S39°23'29"W	100.00'
L117	N50°36'30"W	100.00'
L118	N39°23'31"E	100.00'
L119	S50°36'29"E	100.00'
L120	S39°23'31"W	200.00'
L121	N50°36'29"W	100.00'
L122	N39°23'31"E	200.00'
L123	S50°35'31"E	100.01'
L124	S38°32'27"W	144.72'
L125	S02°57'37"W	225.35'
L126	N87°02'23"W	100.00'
L127	N02°57'37"E	258.28'
L128	N38°41'57"E	177.64'
L129	S87°02'23"E	50.00'
L130	S02°57'37"W	117.83'
L131	S42°42'34"W	118.07'
L132	N47°17'26"W	50.00'
L133	N42°42'34"E	100.00'
L134	N02°57'37"E	99.76'
L135	S51°12'41"E	100.00'
L136	S38°47'20"W	100.00'
L137	N51°12'39"W	100.00'
L138	N38°47'20"E	100.00'
L139	S49°44'36"E	100.03'
L140	S38°47'19"W	61.91'
L141	S37°43'18"W	261.43'
L142	N52°16'43"W	100.00'

ADDITIONAL TEMPORARY WORKSPACE		
LINE TABLE		
LINE	BEARING	DISTANCE
L143	N37°43'17"E	262.36'
L144	N38°47'20"E	65.41'
L145	S37°43'17"W	887.24'
L146	S52°16'42"E	150.00'
L147	S37°43'17"W	157.66'
L148	S40°45'56"W	129.33'
L149	N03°29'06"W	255.22'
L150	N37°43'18"E	94.80'
L151	N37°43'17"E	887.24'
L152	S52°16'43"E	25.00'
L153	N46°57'35"W	100.00'
L154	N43°02'25"E	200.00'
L155	S46°57'36"E	100.00'
L156	S43°02'25"W	200.00'
L157	N52°22'32"W	34.35'
L158	N43°18'27"W	110.79'
L159	N25°25'20"W	7.11'
L160	N37°21'05"E	15.14'
L161	N37°21'05"E	115.22'
L162	S52°02'57"E	150.00'
L163	S37°21'06"W	131.91'
L164	S37°21'06"W	18.28'
L165	N28°40'08"W	100.00'
L166	N61°19'52"E	12.50'
L167	S28°40'08"E	100.00'
L168	S61°19'52"W	12.50'
L169	N09°46'59"W	100.00'
L170	N80°13'01"E	12.50'
L171	S09°46'59"E	100.00'
L172	S80°13'01"W	12.50'
L173	S80°13'01"W	12.50'
L174	N09°46'59"W	100.00'
L175	N80°13'01"E	12.50'
L176	S09°46'59"E	100.00'



LAND
OWNER
INITIALS: _____

DATE: _____

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